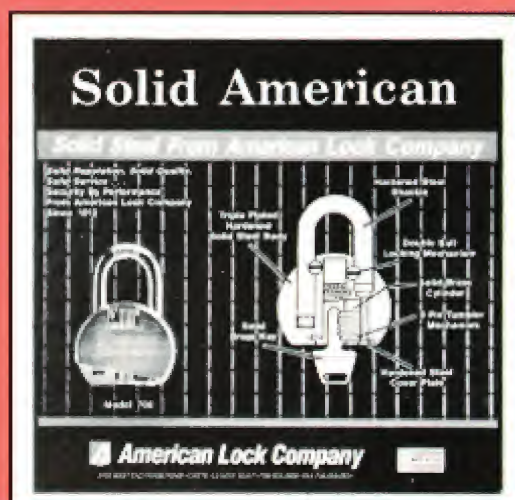


November 1991

# The National Locksmith®



**New & Profitable Ideas**



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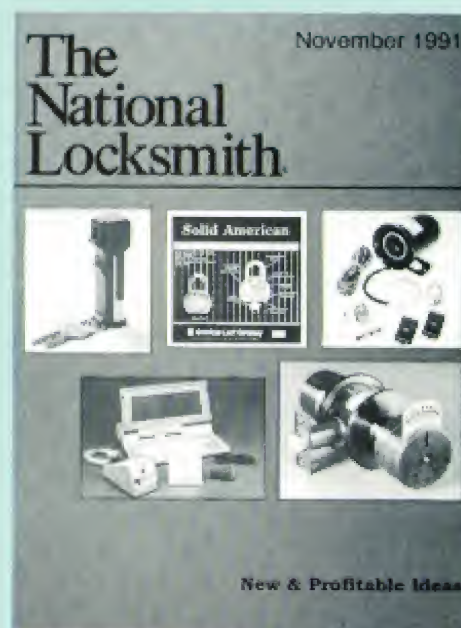
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Take a look at some more photographs sent in by our readers showing their businesses.

*Click on the article  
you wish to read*



#### On The Cover

The following manufacturers are featured on our cover this month: (clockwise from upper left) Personal Security, American Lock Co., Paragon Security Corp., Marlok Company, and CorKey Control Systems. See descriptions of these products and many other new and profitable ideas in our special section beginning on page 35 this month.

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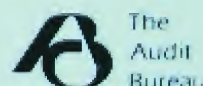


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The  
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Bureau





# Commentary

## Educating The Consumer

Imagine a map of your immediate vicinity. Find your exact location on that map and mark it with a dot. Then draw a circle around your location with a five mile radius. No part of the circle, then, is farther than five miles from your business location.

Now mark an "X" inside that circle for every hardware store, home center, discount store and lumber yard. Most all of these places sell locks, and more are starting to offer their customers lock service as well. I am willing to bet that you have about ten X's in your circle. Along with other locksmiths, these other businesses are your competition.

Competition from these sources is simply not going to go away. In fact, it may intensify as time goes on. How can you effectively compete in a crowded marketplace where many businesses are vying for the attention of the consumer?

Educating the consumer about what you do is probably the best single way you have of solidifying your own business. Be sure to bill yourself as a "security specialist," offering much more than key duplication. Post signage in your shop detailing the services you offer:

**Masterkeying...**we can pin appropriate locks so that certain key holders have access to only certain areas of an apartment or commercial building. Other key holders, such as a manager or owner, can use their one key to gain access to *all* areas within the masterkey system.

**Keys By Code...**Should you lose the keys to your automobile, locker, etc., we can usually make a working key for you quickly and simply by examining the lock.

**Emergency Opening Services...**If you are ever locked out of your car or home, we offer prompt opening services. We will dispatch a security specialist to open your property, quickly and without damage. Normally it is not advisable to permit police or other untrained personnel to attempt to open a locked car, for example. They can easily cause damage far in excess of our charges to perform the opening with no damages.

**Key Duplication...**As locksmiths and security technicians, we specialize in accurate duplication of your keys, including house keys, automobile keys, high security keys, and more. Keys cut in hardware stores sometimes are not accurate, while we carefully adjust our machines to insure trouble free

operation.

**Lock Sales...**Of course we sell locks and padlocks of all kinds. We offer a variety of hardware to fill any requirement you may have. When you purchase hardware from us, you can be assured that you have obtained a quality product, many of which offer higher security than some locks typically found in hardware stores.

**Installation Services...**As specialists in your security, we would be pleased to install any hardware item you might need. When we install your hardware, you can be confident that it will operate smoothly, and will provide you with the security it is designed to offer.

**Security Surveys...**As a service to our customers, we will examine your premises and show you areas where your security can be enhanced. We can show you how to better secure sliding glass doors, windows, as well as entry doors.

You have a better chance of competing against other businesses when the consumer recognizes that as the security specialist, you are better equipped than anyone else to offer both products and services. In the December issue we will provide you with literature you can copy and distribute to better inform your customer about the importance of relying on the locksmith when it comes to security. You are more qualified than is the kid behind the hardware store counter. We just have to let the customer know about that.



*Marc Goldberg*  
Editor/Publisher

November 5



Continued from page 6

## Time For Locksmiths To Make A Little Noise

Dear Marc:

Your recent editorials about the cloning of locksmiths into the mass market web of True Value Stores by the Ilco Unican Corporation's locksmithing team, is more than just a deeply felt concern by a person obviously devoted to this industry's future, but it has a larger dimension, I feel.

It is a symptom, if not a trauma, of the American frontier of commerce in the 1990's that is to venture into the traditional industries and trades to pillage that potential with no concern at all for the people who built that business on sweat, guts and risk. We've seen the avariciousness of banking institutions that have failed by the hundreds because they ventured into real estate and the attendant commercial development for a fast reap, to ultimately fail, taking millions of investors and depositors with them, if not their entire industry.

While I'm not a locksmith, I've been around the business for two decades creating marketing programs and advertising campaigns for major door hardware suppliers to locksmith distributors. And with a consumer's eye

toward the mass market in general, one wonders if we shouldn't give Ilco Unican all the rope it wants if the notion is to capture a large market share from locksmiths. Let them train True Value People. Let them run their lockpicking seminars. As transient as the hardware hardlines business seems, it may be difficult to keep these "instant locksmiths" behind their counters for any period of time to make this program effective. But Marc Goldberg's point is that this intrudes, is life-threatening to a solid profession and couldn't happen at a worse time with the current economy.

Personally, while I have no quarrel with the publisher and the editors of Locksmith Ledger, the position of the parent company has got to be questioned in a quest to get the best, and most, of both worlds. If there is something in all this for the traditional locksmith, as the Ilco Unican force contends, it eludes me.

As locksmiths, you have a choice. It's much like voting, or writing to a Congressman. Start writing letters like this one; write Ilco, write your distributor, write the manufacturers, write your local business editors in the papers. Make a little noise. In a few years your very life might depend on it.

Russ Madison

President/Co-Creative Director  
Madison & Vogt & Soap Inc.  
Connecticut

## Special Request For Keyblank Manufacturers

Dear Marc:

I have been in the locksmith business full-time for 6-1/2 years and have noticed many areas where locksmiths and manufacturers *could* work together for everybody's benefit with little or no cost to either party. I also know that change comes very slowly if indeed it ever comes at all.

A few years back I wrote asking the keyblank manufacturers to make the key ring hole in the bow of the blank at least .150" in diameter so the blank could be easily displayed on common peg board hooks as well as be more user-friendly on the end-users key ring. Could you please publish this request again? I am sure that the keyblank manufacturers would be willing to take such a simple and practical request under consideration if they only knew the problem exists.

Jim Adcock  
Pennsylvania

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# Technitips

Helpful Hints from Fellow Locksmiths



Send me your Technitips. Who knows, you may be our next winner! c/o The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107

by Robert Sieveking

*Congratulations to all those who find their Technitips printed this month. There were some very good Tips this month. New auto body styles need new easier opening methods. Common everyday locksets need lasting repairs requiring professional solutions. Every shop, even my own, needs a little better organization, to keep all those tiny repair parts in order. Though some of the solutions to every day problems, presented here, may not be exactly the same as you may have done, they present an idea. The spark, that with a little of your ingenuity can become a solution to one of your special problems or challenges.*

*Technitips are only the basic ideas. The applications for most, are up to you. Opportunity, like a Technitip is*

*only what you make of it. This contest is open to all locksmiths. Technitips is a basic opportunity. The winning is up to you.*

*November brings us one month closer to the end of the 1991 Technitips competition. If you have been waiting for exactly the right moment to slip that blockbuster Technitip into the race, this is it. Technitips submitted this month will be the last ones considered for this year's competition.*

## Win a VATS Decoder From All-Lock!

Each month, All-Lock will award one of their A-7000 VATS Decoders and an A-7001 Adaptor to the best automotive Technitip submitted this month. If you would like a chance to win a free decoder and adaptor from All-Lock, simply submit your automotive tip exclusively to *The National Locksmith*. Tips submitted to other publications cannot be considered.

All-Lock's A-7000 makes it easy to diagnose system failures, service the column and select the correct key blank. This sophisticated tool is easy to use and is completely portable. Long wire leads are easy to use in cramped automotive situations.

Submit your tip, and win today!



## The Technitips Challenge

There has been considerable discussion and many difficulties combining and in general, servicing some of those "profile cylinders," that seem to be

### How To Enter

All you need to do to enter is submit a tip, covering any aspect of locksmithing to *The National Locksmith*. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Why not write it down and submit it to: Robert Sieveking, Technitips' Editor, *The National Locksmith*, 1533 Burgundy Parkway, Streamwood, IL 60107.

Tips submitted to other industry publications will **not be eligible**! So get busy and send in your tips today. You may win cash merchandise, or even one of many key machines or code book sets! At the end of the year, we choose the winners of the listed prizes.

Last year dozens of people walked off with money and prizes. Wouldn't you like to be one of the prize winners for 1991? Enter today! It's a lot easier than you think!

### Every Tip Wins 'Locksmith Bucks'!

Yes, every tip published wins a prize. But remember, you must submit your tip to *The National Locksmith* exclusively. Each and every tip published in Technitips wins you \$25.00 in Locksmith Bucks! Use this spendable cash toward the purchase of any books or merchandise from *The National Locksmith*. You also receive a Bonded Locksmith bumper sticker and decal. Plus you are now eligible for the really big prizes!

### Best Tip of the month prizes!

If your tip is chosen as the best tip of the month, you will win \$50.00 in cash as well as \$35.00 in Locksmith Bucks! Plus you will receive a quartz Locksmith watch, a Bonded Locksmith bumper sticker, decal and a Locksmith Cap. Plus, you may win one of the annual prizes.



seeping into the North American market from Europe and South America. I need a little help finding a source for the Papaiz single sided profile cylinders. Technitips and entries must be submitted to *The National Locksmith* exclusively, to be eligible for prizes.

If you have a particularly good method of combining or servicing other cylinders of this type, please let me know. There are some of these cylinders, because of their unique size and lack of "brand name" that are almost impossible to trace. If you have knowledge of these lock cylinders, their dimensional statistics, any service kits (pins), or replacement information, write it up and send it. Photocopy the material if you can, so I can share it with many frustrated locksmiths that are having problems locating service parts

### November's Best Tip

This Technitip is one that I hope will be helpful to other locksmiths. It concerns the fabrication of a mechanical stop on three doors of a motel that I service, to prevent the locks from being damaged by guests rotating the key too far/hard in the emergency exit devices. The doors must remain locked from the outside, to exclude persons not staying at the motel, but must be accessible by the guest key. The Jackson hardware is continually plagued by broken and chipped plastic and white metal gears in the mechanism, because they will not withstand the torque that can be applied by a guest key (large bow.) The excessive torque and high usage destroys the latch retracting gears.

By limiting the rotation of the lock cylinder, we will positively eliminate the guests from "over torquing" and "forcing" the mechanism. In illustration one you see an enlarged view of the positive mechanical stop. The dimensions shown will work for an original Schlage rim cylinder, but the stop can very easily be adapted to most

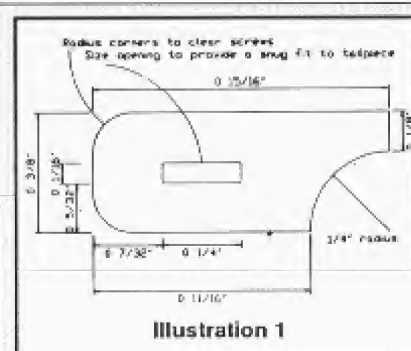


Illustration 1

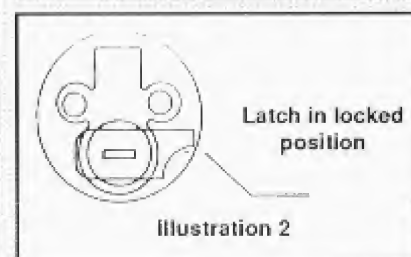


Illustration 2

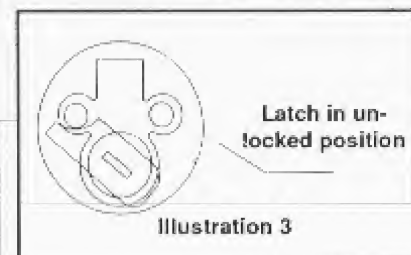


Illustration 3

any rim cylinder application. Illustration two shows the stop installed on the tailpiece of the

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Continued from page 12

cylinder, with the cylinder at rest. Illustration three shows the cylinder rotated about 225 degrees counter clockwise, to retract the latch. The stop is against the rim cylinder mounting screw, and positively prevents the cylinder from rotating any further. The stop was filed to allow the latch to fully retract. If the door is handed in the opposite direction, simply reverse the stop to allow clockwise rotation of the cylinder.

This idea can be used in any number of application, to prevent a rim cylinder from being rotated past a desired point. It simply slips over the flat tailpiece. A piece of rubber tubing (gas line), pushed onto the tailpiece will keep the stop against the rear of the cylinder and allow it

to be easily removed when the cylinder is serviced.

Howard F. Cooke  
Ohio

\*\*\*\*\*

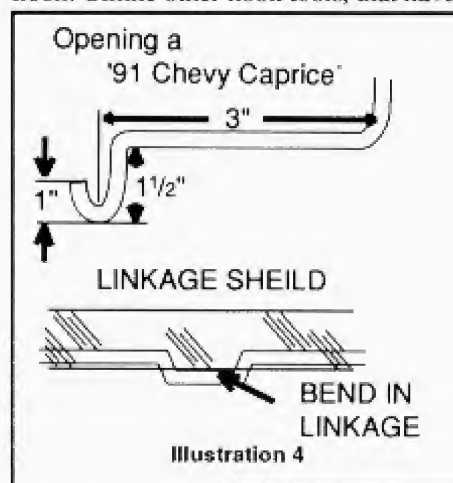
#### Automotive Tip of the Month

This tip is the winner of the All-Lock A-7000 VATS Decoder and the A7001 Adapter. All-Lock will award this package to the best automotive tip each month of the year.

This Tip deals with an easier opening method for the 1991 Chevrolet Caprice. The information I have read on opening these autos has not worked as well as it should have. It is for this reason that I have found an easier method.

The linkage which operates the locking button in the door is completely covered or shielded, except for a small area approximately 6" forward of the

latch unit. At this point, there is an opening in the underside of the shield as you see in illustration four. The tool shown in the illustration is an "up" hook. Unlike other hook tools, that have



a down facing hook, this tool can be slid along under the shield. When the opening in the shield is found, the hook can engage the linkage and move it forward to unlock the door. I have found this method and tool very useful on the new Chevrolet body style. Use a flex light to locate the linkage. The target area is about 6" forward of the latch mechanism. In some cases, you will be able to see the linkage, as it is not fully covered.

R. Lazich  
Wisconsin

\*\*\*\*\*

## NATIONAL AUTO LOCK SERVICE, INC.

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This Technitip concerns the Yaletronic electrified locksets. The information has been gathered here at Brigham Young University in Provo, Utah. Here at BYU we have nearly 300 of these units in use, which accounts for our broad experience servicing them.

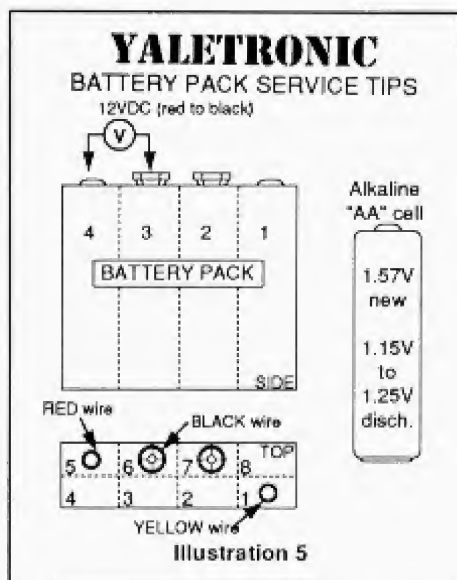
In addition to the following "Tips," I have observed that a fresh Alkaline AA battery will measure just over 1.5 VDC when new, (1.56 to 1.57V) When discharged in a Yaletronic unit, they will measure between 1.15 and 1.25 Volts. Battery life, according to the manufacturer, is approximately 6000 opening, with at least 20 openings after the battery indicates low.

1. Connect the yellow wire first, then, as you connect the black wire to the battery pack, listen for a scratchy chirp from the unit. Connect the red wire last. (See illustration 5.)

2. Try the keypad, for proper operation of all combinations.

3. If you hear a definite 2-3 beep sound, you probably have lost all combinations and will have to reload them. Start with the "Pass" code. (This





happens occasionally, but I cannot explain why.)

4. Check the battery voltage at the red and black wires. It should be 12V or slightly higher. When voltage measures 9.0 to 9.05 volts, the batteries should be replaced.

5. If you get a low battery signal, you will generally find batteries; 1, 6, 7, and 8 to be low. If necessity demands, you can replace only those four batteries that measure low. This will restore the unit and remove the low battery indication.

This Technitip should help someone not totally familiar with the Yaletronic, to check out and service the lock without much trouble.

Stan Madsen  
Utah

\*\*\*\*\*

Recently I was called to rekey and repair a cylindrical lock, mounted in a hollow camper door. The lock was drilled into the door at a point that had no interior support. When the mounting screws were tightened, to secure the lock, the mechanism would bind and prevent the bolt from working freely. It seems that the inside and outside skins of the door (thin aluminum) were bending. Because I wanted the lock to work properly, and yet be "tight" in the door, I came up with this little Technitip. Small pieces of wood, were cut to fill the distance between the inside and outside skin of the door, and with a dab of trim cement or contact cement, they were glued in place inside the door. This way, when the lock is fastened to the door, the blocking will prevent the sides of the door from bending or squeezing together. The shims can be almost any size, but they must be the correct length to fit

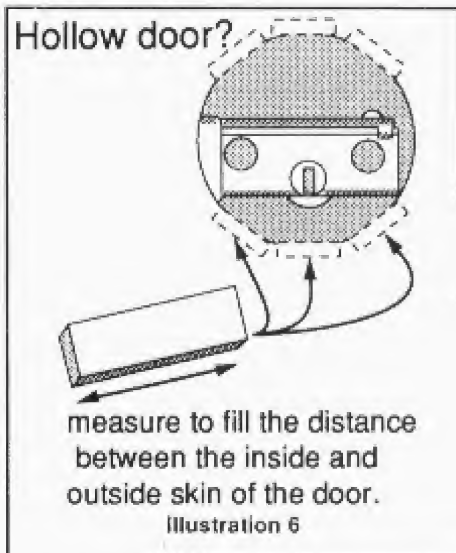


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"between" the sheet metal door skins.  
(See Illustration 6)



The lock was installed in the door and tightened, without binding the mechanism or distorting the door. This Tip works just as well on those hollow wood doors with the long (15") backsets that were so popular in the '50's.

William A. Honeywell  
Iowa

\*\*\*\*\*

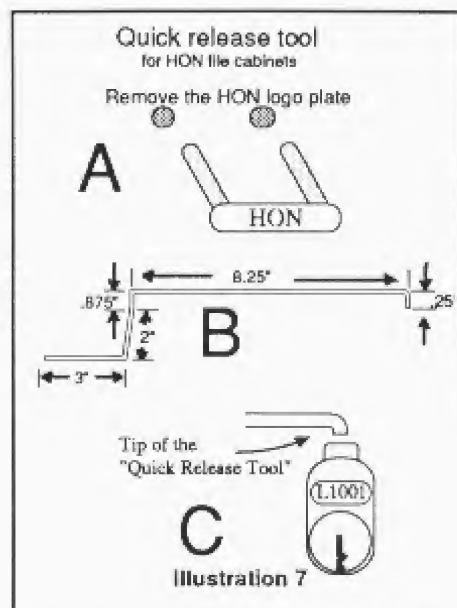
This Tip is for my fellow locksmiths, trying to organize tiny parts, and keep them accessible. The most convenient little plastic boxes, are those that contain Certs or Tic-Tac mints. They can be filled with small parts and the clear containers keep the parts easy to identify. If you can't find a part when you need it, it's the same as not having it in the first place. By organizing your small parts, you will save the time spent searching for things you know you have, and avoid buying parts you already have.

Steven Brantom  
Florida

\*\*\*\*\*

My Tip is in reference to opening the Hon locking file cabinet. The quick release tool shown in illustration seven is designed to depress the locking bolt of the push lock without picking or impressing a key to the cylinder or cutting a key to the code number on the face of the lock. The procedure is quite simple.

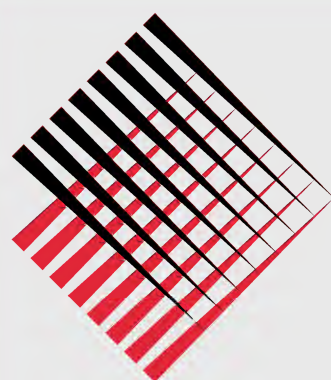
Carefully remove the "HON" logo name plate at the center of the top of the file cabinet. This will reveal two holes. Insert the special "Quick Release Tool" into the right hole and maneuver the tip above the locking dog of the push lock,



as you see in the illustration. The locking bolt of the push lock is exactly 8.25" from the right mounting hole of the name plate. The tool is designed to place the small tip exactly over the bolt. Turn the handle to depress the bolt and release the push lock. Replace the name plate to complete the opening.

Michael J. Scheivert  
South Carolina

\*\*\*\*\*



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# Newsmakers

## New Products and Industry News

### Key Connection Under New Ownership

The Key Connection, Inc. of North Miami, FL has been acquired by new ownership. The company specializes in wholesale distribution of auto locks, locksmith tools, equipment and supplies. The new president of The Key Connection, Inc. is looking forward to serving locksmith customers. The company stresses that "your satisfaction is guaranteed." The new company features new ideas and a new commitment to meeting the needs of its locksmith customers.

The warehouse stocks a full line of automotive supplies as well as other products and looks forward to renewing relationships with locksmiths nationwide. The company can be contacted at (800) 798-LOCK (5625).

Circle 334 on Rapid Reply

### Lancaster Supply's New Catalog

Lancaster Supply announces its newest catalog. The easy-to-use catalog includes complete product descriptions as well as manufacturer part numbers and order numbers. Most items found in the catalog are in stock and ready for immediate shipment. A-1, Auto-Security, Briggs & Stratton, Don-Jo, ESP, Jet, Lucky Line and Rytan are just a few of the lines Lancaster Supply

carries. New items are being added to inventory, which may not be listed in the catalog.

Circle 335 on Rapid Reply

### American Lock's Trailer Guard Display

American Lock Company's new trailer guard display board and counter display allows for viewing of American Lock's trailer guard and Weatherbuilt Plus™ padlock. With graphics that clearly explain the installation and selections for your trailer lock, this compact working demonstration display offers the versatility for counter or wall mount merchandising (display board only).



Circle 335 on Rapid Reply

### National Cabinet Lock Offers Free Displays

With your purchase of National Cabinet Lock products you can receive free display boards, direct from the factory, by submitting copies of your invoices. This offer will apply on all locks purchased from your distributors from November 1, 1991 to March 31, 1992.

Select your boards from these ten available:

V69B-1, pin tumbler cam locks; V69B-2, pin tumbler door and drawer locks; V69B-3, pin tumbler mail box locks; V69B-4, multi-cam pin tumbler mail box locks; V69B-5, sliding door and special use locks; V69B-6, disc tumbler cam locks; V69B-7, disc tumbler handle locks; V69B-8, cam and strike assortment; V69B-10, furniture locks; V69B-13, disc tumbler drawer and door locks.

Pick-up a flyer from your favorite distributors for complete details.



Circle 337 on Rapid Reply

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Continued from page 18

## Adam's Rite Exit Device Catalog

A new 32 page color catalog of exit devices is available from Adams Rite Manufacturing Co. The devices are all UL listed, either for life safety only or for fire-rated (up to 3 hour) doors.

While available in rim, mortise, concealed or surface vertical rod versions, all devices feature the same appearance: a clean one-piece touchbar that actuates with light pressure anywhere along its entire length. The hardware is available in ten material/finishes: bright or satin brass, bright, satin or oil-rubbed bronze, bright or satin stainless steel, and aluminum anodized in clear, dark bronze or black.



Circle 338 on Rapid Reply

## Preso-Matic's Digital Lock For Handicapped

Preso-Matic Lock Company offers a digital door lock for the physically challenged. The mechanically operated, four digit combination retracts the deadlatch bolt automatically when the last digit is pressed and the interior exit button unlocks. There are no knobs to turn or twist and can be installed at any convenient height above the door pull. A finger or mouthpiece is all that is needed to press buttons.



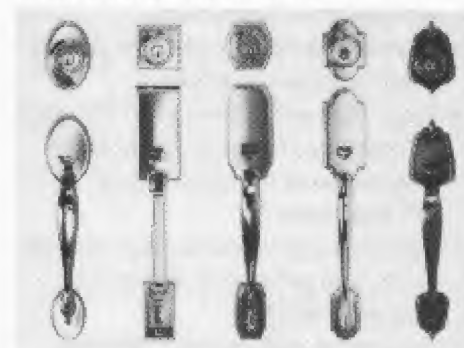
Circle 339 on Rapid Reply

## Kwikset Opens Doors With New Handlesets

To reinforce its commitment to style and quality, Kwikset introduces five new forged brass handleset designs.

The latest entry door handlesets, introduced at the National Hardware Show in August, 1991, will replace Kwikset's 700 Series entrance door hardware, according to Steve Price, vice president of marketing for the Anaheim, California-based company.

The new Sheridan and Monarch models, of contemporary design, and the Arlington series, with a colonial traditional motif, are available in various finishes.



Circle 340 on Rapid Reply



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## Dorma Publishes Door Closer Bulletin

Dorma Door Controls Inc.'s High-Security Surface Applied Door Closers (HS Series) are detailed in a new bulletin from Dorma.



The HS Series bulletin describes the HS 7800 and HS 83, which are recommended for use in correctional facilities, financial institutions, government installations, schools, public access buildings, or any location where there is a need to minimize the opportunity for tampering, vandalism, or damage and abuse of the door hardware.

**Circle 341 on Rapid Reply**

## Meilink and Hercules File For Re-Organization

The management of Meilink Industries and Hercules Stamping have filed voluntary petitions for re-organization under the provisions of Chapter 11 of the Federal Code. This action was taken in conjunction with a similar filing made by the parent organization, M-H Group of Toledo.

Management stated that the filing was necessary for economic and strategic business reasons and that they will submit a re-organization proposal in the next 60 to 90 days. Meilink and Hercules will continue to operate on a business-as-usual basis while plans are being finalized. M-H Group is a holding company and does not conduct a commercial business.

It was further stated that Meilink and Hercules were purchased by M-H Group nearly 18 months ago as part of an effort to re-vitalize Toledo based industries. Although considerable progress was made, the current economic recession has

had a negative impact on the business and the ability to address the fundamental problems of excessive manufacturing and facility costs. The company expects that this re-organization process will enable them to function more effectively in the short term, while positioning them on a positive strategic basis.

**Circle 342 on Rapid Reply**

## Master Lock Adds To Designer Series

Master Lock has expanded its Designer Series collection of door hardware with the Francesca leverset. The Master Lock



Designer Series is the first door hardware marketed under the Master Lock name.

The classic continental design features a satin face, with polished edge and trim which comes in bright brass and bright chrome finishes. Francesca levers are also available in antique brass.

**Circle 343 on Rapid Reply**



# ASP Covers the World of Auto Locks

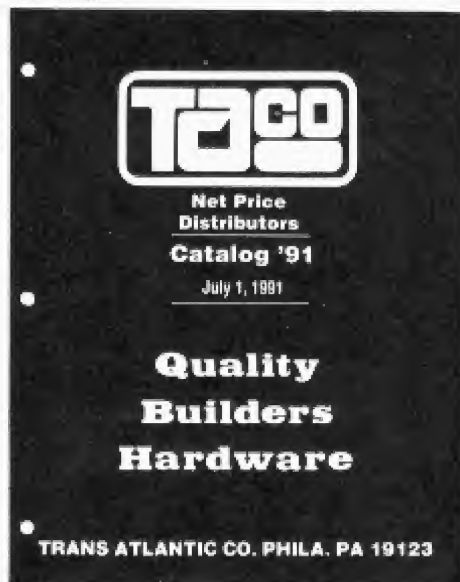
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## New TACO Catalog Available

Trans-Atlantic Co., an importer of commercial and residential grade builders, security and shelf hardware, now has its new edition catalog available. Many new, innovative products are included.

To secure a copy, contact Trans-Atlantic Co.



Circle 344 on Rapid Reply

## Jet Offers Key Blank Catalog Supplements

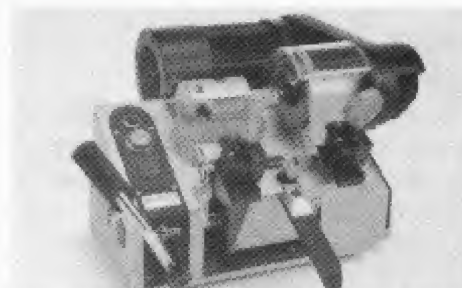
Since the first of the year when Jet Hardware Mfg. Corp. released their new catalog #191, changes have taken place month after month.

The new catalog #191 featured close to one hundred new blanks in comparison to the three year old catalog which was out on the street. Since the beginning of this year, supplements covering close to sixty new blanks have been released to authorized Jet Locksmith Supply Distributors. These include the new series called "Safeline" which are comprised of safe deposit blanks. New automobile both domestic and foreign, regular and plastic head blanks are in full production along with many pin and disk tumbler and flat steel key blanks.

Circle 345 on Rapid Reply

## Silca's Bravo USA Semi-Automatic Duplicator

The Bravo USA is a high quality, semi-automatic, professional



duplicating machine with 4 way jaws, allowing quick and easy duplication of all types of house, cruciform and standard or double sided car keys. Even keys as small as those for Master #7 padlocks can be duplicated with ease. Adapters are also available to allow duplication of the Persche high security keys.

Extremely rigid manufacturing tolerances make this machine highly accurate. In addition, the Bravo USA features a micrometric adjustment for the tracer point, a twin rod carriage system with sealed bushings, a nylon deburring brush and a removable chip tray. The carriage locks in the secure position and can be released only once the set up guides are disengaged.

Circle 354 on Rapid Reply



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# The Persuader GM Tool

"This tool will open GM door and trunk locks quickly and efficiently, where formerly drilling was the primary method of servicing these cylinders."



by Dale Libby

The latest tool from Frank Markisello of Aable Locks is a finely designed force tool. This tool will open GM door and trunk locks quickly and efficiently where formerly drilling was the primary method of servicing these cylinders. I will cover several instances where this tool can be used, and one situation where it is not needed to service GM locks.

Before the trunk lock can be serviced, the cap must be exposed. On some models of cars the trunk lock is covered by a decorative escutcheon that must be moved out of the way to insert a key. The other cover is just a fancy decorative trim piece. In both cases, these encasements must be removed.

These covers will be either glued down or pop riveted in place. To remove the glued covers, pry and apply moderate heat (if available) and the cover will pry off the back of the car. To reinstall this cover, I use GM (Delco) weatherstrip adhesive. It is yellow in color and really works well.

To remove the covers that are pop riveted in place, it will be necessary to drill out the rivets. Be careful so that the drill does not slip and mar the trunk of the car. To reinstall, use the proper size GM pop rivets with the rivet adaptor. The adaptor lets you insert the rivet deep in the cavity so it will be a tight fit.

Some auto suppliers and lock wholesalers sell a package of 25 rivets with an adaptor included. Before this, I used 3/16" rivets that are just a little too big to do the job without drilling to 3/16". I also had trouble making the rivets tight without the special adaptor.

Photograph one shows the



1. Persuader with GM shutter mechanism and springs.



2. GM door lock mounted in Keedex mounting plate for testing.



3. Prying cap edge up in preparation for pulling rest of cap off face of lock.



4. Pulling the face cap with vice grip pliers.



5. Pulling the trunk lock with the key when the tailpiece has fallen off.

"Persuader" force tool, the two removable torque pins, a universal key blade (for instances when the customer's key is not available), a shutter and two springs from a GM lock. Photograph two shows a GM lock mounted in a Keedex K8 lock plate. There was a little adapting to do to the lock to get it to fit properly. It did not affect the results of the test.

The first thing to do after exposing the lock is to insert a small screwdriver under the faceplate and pry up to create a torn tab of metal from the face cap. (See photograph 3.) This is easy to do because the shutter mechanism is spring fitted under the cap, and there is always room to insert a screwdriver.

In photograph four, a tab has been raised and a vice-grip pliers has been attached. By pulling quickly, evenly, and straight out, the cap can be "peeled." I have been doing this for years, and I suggest wearing gloves. I have cut myself more times than I care to admit.

After removing any escutcheons and the face cap, the door cylinder or the trunk cylinder is ready to work on. For the first common problem in servicing trunk locks, it will not be necessary to use the Persuader at all.

I have been called to open GM trunk locks when the complaint is that the key turns but the trunk will not open. The usual scenario is one in which the customer has recently carried some object in his trunk and has tied the trunk down to the tailpiece and the attaching bar. After a few bumps, the tailpiece has become loose and unhooks. When the customer unloads his car and shuts the trunk lid, it will not open with a key. The procedure for opening this is easy:

Remove the face cap, insert the key, turn all the way to the right and then back, and the plug will come out of the case. (See photograph 5.) It has to be worked out slowly to overcome the return spring which is still attached to

*Continued on page 26*



*Continued from page 24*

the back of the lock. Once the cylinder is out, open the trunk with a long screwdriver, replace the lock cap and return spring, and educate the customer about tying the lid down to the tailpiece.

Photographs six and seven show the two types of GM cylinders with the difference being the "tits" in the spring holes. On older locks, these tits held the shutter springs in place. On later models these were removed.

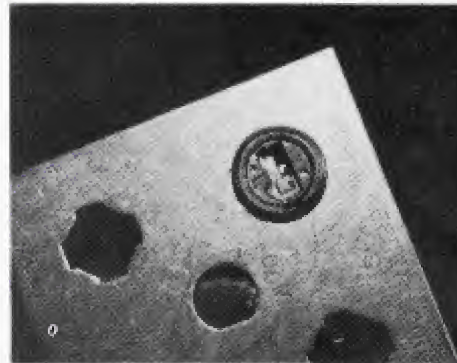
The Persuader is designed to work on both of these locks. The locks with the tits will not allow the Persuader to seat deeply enough in the lock cavity unless you remove the torque pins. This is easily done by means of two set screws. Once done, the tool fits deeply enough to allow the cylinder to be forced.

I tried this tool on a door lock and a trunk lock. In both instances it took minimal force to get these locks open. The total opening was about one minute in both cases. The tool did what it was supposed to do. It is packaged in a cloth closer bag, complete with directions and pictures on how to use it.

When opening the lock, moderate

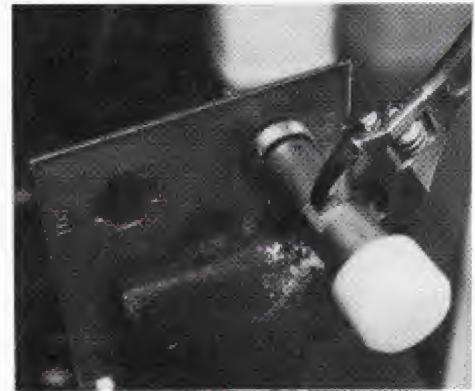


**6. The door lock with spring retainer tits. Remove pins from tool.**

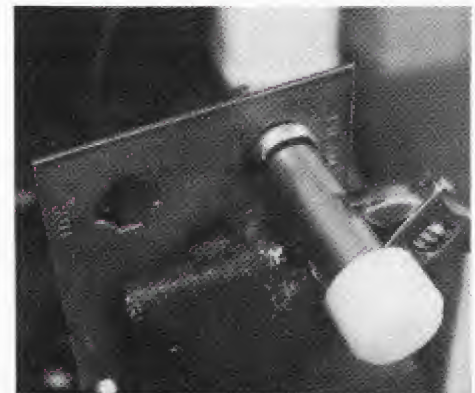


**7. A standard lock. Torque pins should be used in this lock.**

force must be used in turning the tool with a crescent adjustable wrench as well as pushing pressure on the tool. Photographs eight and nine show the



**8. The Persuader before use.**



**9. The Persuader after turning the trunk lock**

*Continued on page 28*



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Continued from page 26

tool in action.

When working on the door lock, the one with the tits in the spring holes, the case cracked and the lock turned easily. When working on the trunk lock, the edge of the sidebar rolled over allowing the cylinder to open.

After opening the trunk lock with the force tool, I tried the correct key and the cylinder still worked, but there was a lot of free play. If, for instance, the unforced cylinder has 1/8" of free play, the forced cylinder has 1/4" of free play. The correct key still worked, however.

The real reason this tool was invented was to use on trunk (or door) cylinders where the spring retainer has popped up and the proper key will not work. There are other ways to overcome this problem, but the Persuader makes them academic. This works and it is fast. I will now quote directly from the directions that come with the Persuader tool:

*"This tool is designed to open GM trunk locks when a customer has a key*

*but it does not open the trunk. The problem is usually the spring retainer has come loose and popped up into the shell causing a lockout. In this case, the torque tool power will shear the retainer allowing the cylinder plug to turn, opening the lock. Another problem is when one side of the side bar retaining plate has sprung off, causing that side of the side bar to remain out and not retracting into the cylinder plug. In this case, the tool will force the side of the side bar into the cylinder allowing the plug to turn."*

The instructions that are well photographed will explain the rest of the benefits of this tool. I liked it and it does what it says it will do. I have a problem with forcing a door lock to open because I have never had a problem working on a door and getting it open. The real pleasure is on the trunk locks of some GM cars.

I have been called on several occasions to make a key for the trunk where the trunk key on a late model GM does not match the door or glove box lock. Now, I can easily open the trunk and re-key a new trunk cylinder to

match the existing door locks.

On the other hand, when called to make a key for a GM car when there is no glove box lock to work from, depending on the situation, I now opt to open the trunk or hatchback, remove that lock, and make keys for the doors and trunk. Some doors are very hard to work on and the access holes are too small. Sometimes the paneling is hard to remove or the seat belt mechanism is in the door and this is a problem to remove and replace.

So, by using the force tool to get the trunk open, it is much easier to work on than the doors. You may have to replace a few more cylinders this way, but the ones the Persuader force tool works on are standard, and you should have these in stock anyway.

By keeping your services simple, easy, and quick, you can make more money and make an impatient customer happy. I like this tool for the "Used" car dealers. They want fast labor at incredibly cheap prices, and the faster and easier the work, the better. The Persuader makes this possible. Open and Prosper. \$



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## Mini Section: Van Interiors

Every locksmith has set up his service vehicle in a different manner. Companies featured here manufacture customized shelving and storage units for locksmith vehicles.

**A** number of companies manufacture interior units for vehicles used by service people. Utilizing some of these products allows the locksmith to customize his vehicle in just about any manner imaginable. Here is more information on several companies offering such products to the trade.

### Commercial Van Interiors

Commercial van interiors, founded in St. Louis, MO in 1985, has rapidly become known as a leading outfitter of locksmithing vehicles.

With branch locations in the Midwest, Southwest and West Coast areas, the company directs its attention exclusively to the light duty, commercial vehicle market. Typical customers include the trades, utilities, telephone and CATV companies. The strength and success of the company are the result of this focus on light duty vehicles, its large inventories (described as "In Stock for Immediate Installation") and a strong sense of quality and customer service shared by all employees.

Realizing that the products and services offered are ideally suited for the mobile locksmith, a special effort was made to understand the various needs within the trade. With the help of its arrangements for the different vehicle makes and models.

"Our General Locksmith Packages have been extremely popular because they offer versatility and a smart balance of the essentials our customers have told us are important to them," states Steve Kloessner, president. "And, if a customer wants to create his own arrangement, the modular design and depth of our product lines let him mix and match components to satisfy almost any individual requirement."

In an effort to offer a "turnkey" solution to vehicle outfitting, CVI also carries a wide range of accessories (including power invertors, interior lighting, and burglar alarms and the



company's own sloped key machine bases). Installation of equipment can be arranged at one of its branch locations, through a nationwide field installation program or through a fleet oriented factory program. All equipment can also be shipped direct to end users who prefer to install it themselves.

"We're a very service oriented company," says Steve. "We listen to what our customers have to say and are always looking for new products and ideas that may benefit them. The commitment and dedication of all of our people, and the pride we take in the products and services we offer, shows in the success and good reputation the company enjoys."

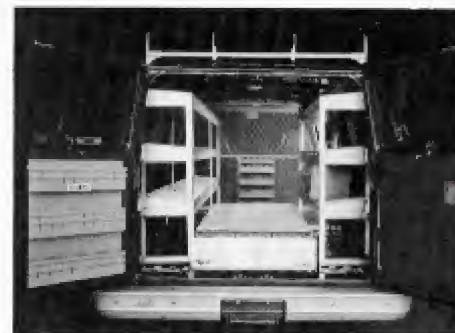
Circle 346 on Rapid Reply

### Reading Body Works

Reading Body Works manufactures a variety of rugged van accessories designed to maximize the usable space of panel vans. Reading shelf racks, bulkheads, drawers, trays, and ladder racks provide secure, roomy and organized storage for tools and equipment.

Heavy-duty shelf racks are built tough, easy-to-assemble, and simple to install. All Reading racks are die-formed of heavy gauge minimum spangle galvanized steel for rust and corrosion protection. They are available as individual shelves or standard sets, and come in a variety of sizes.

Reading's sturdy steel bulkheads protect drivers and passengers from



loose cargo, and can prevent theft of valuable tools and equipment. Bulkheads are available with three fixed sections, including a hinged or sliding center section, or as full width partitions. Each section has a solid steel bottom half and a mesh metal top.

Tough drawers and trays keep tools and small parts organized and easy to reach. Reading's Pull-Out-Pouches are equipped with adjustable dividers that make it possible to design compartments according to individual needs. Convenient 18-drawer units fit into any Reading shelf rack, providing organized space for any inventory of small parts. Van door pouches mount on the inside of the van's rear or side doors, creating usable storage space in a previously unusable space.

With Readings steel ladder racks, ladders and other long materials can be firmly secured on van roofs. These racks are easily mounted on standard van roofs.

For more than 35 years, Reading Body Works has been a leader in the manufacture of service vehicles and equipment, including utility bodies, service bodies, pickup caps, stake bodies and a complete line of accessories for pickup trucks and vans.

Circle 347 on Rapid Reply

### Adrian Steel

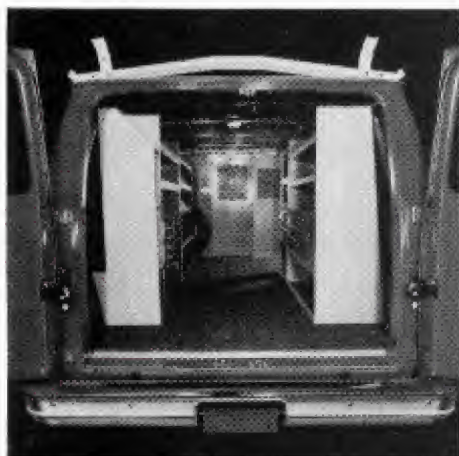
Modular interior packages designed to meet all the needs of locksmiths and

*Continued on page 32*



Continued from page 30

### Adrian Steel, continued



alarm installers are offered by Adrian Steel Company for both full size and mini-vans. More than 25 different modular components made by Adrian Steel can be grouped together into an organized storage system for parts, tools and equipment, creating an ideal "workshop on wheels" for service technicians out on the job.

Components include drawer units, cabinets, bins, a workbench, stool, small and large shelf racks, low profile storage units and a universal security partition to separate the van workspace from the driver's compartment.

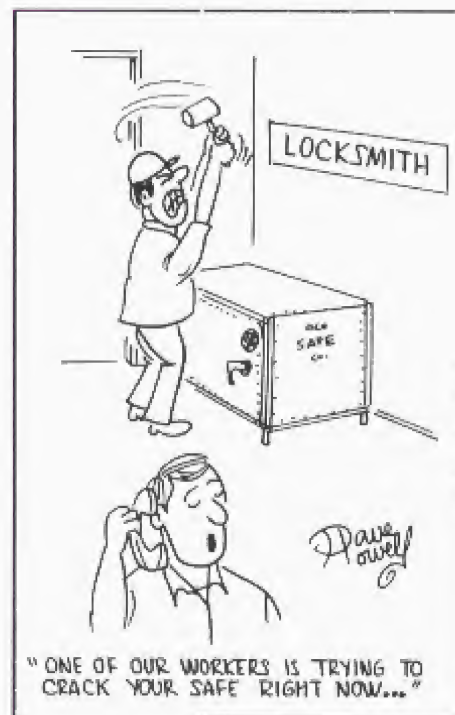
All Adrian Steel modules and components are manufactured from strong, 16 or 18 gauge steel and each item is given Adrian's high technology Steel-Cote finish. This is a very hard, powder coat paint finish that resists chipping, cracking and abrasion, keeping the products looking factory new through many years of service.

Components and modules are available individually for grouping together in any arrangement preferred by the individual locksmith or alarm installer, or they can be supplied in pre-packaged arrangements designed by Adrian Steel for the unique needs of the locksmith trade. The Locksmith Service Interior package contains a wide assortment of drawer units and cabinets in conjunction with a workbench and stool. This modular pre-packaged arrangement is designed to install into a full-size van. If a complete package is purchased, all necessary mounting brackets and hardware are supplied along with complete instructions for easy do-it-yourself installation.

Adrian Steel interior packages, modules and components are available from the factory as well as through a nationwide network of truck equipment distributors/installers. All pre-packaged arrangements are designed to fit into the

vehicle without any alterations. Packages can also be ordered through most new car/truck dealerships when ordering a new vehicle.

Circle 348 on Rapid Reply



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# Profitable Ideas

**New &**

Following are a number of interesting ideas you might want to consider for your business. You should always remain open to new ideas and products that might help you profit more. Under each product item there is a Rapid Reply number. On items that interest you, circle the number on the Rapid Reply Card. You will then receive literature on those items which you have requested.

## Adcor Electronics Telguard

Adcor Electronics' popular Telguard cellular alarm transmission device now incorporates a self-test feature. The new Model T-1100U, which replaces the previous Model T-1000U, can be set to test itself and its host control/communicator automatically. During a test, Telguard disconnects the incoming Telco service and the unit's AC power. A successful test occurs when Telguard recognizes the Telco outage, switches the host control/communicator to cellular and trips the host unit.



Circle 291 on Rapid Reply

## Aiphone's Video Sentry PanTilt

Aiphone introduces a video entry system with a multi-directional camera built into the MY-DC door station. A touch pad on the MY-1CD monitor controls a one-lux CCD camera that can pan 122 degrees and tilt 76 degrees, more than four times the area of a fixed camera. Backlighting control and infrared illuminating LED's provide crisp images in bright sunlight or total darkness.



Circle 292 on Rapid Reply

## American Lock's Display Board

American Lock Company's new "Solid American" display board, featuring their flagship Model #700 lock, recently won an award at the "National Hardware Show Expo."

This display board, designed with a cutaway version of the solid steel Model #700 and graphics that call out the features of the padlock, measures a compact 12" x 12" and can be wall mounted or used as a counter display.



Circle 293 on Rapid Reply

## Borroughs Throttle Position Holders

Borroughs Tool & Equipment Corporation is announcing development of a Throttle Position Holder tool for GM cars.

The BT9028 Throttle Position Holder is universal and works on all GM cars with cruise control (1980-1991.) The tool is designed to give position throttle linkage control when making adjustments. The BT9028 features extra-thin heat-treated jaws that fit into tight areas, yet will not bend. Flex shaft allows access around obstructions and provides positive grip, with a knurled aluminum adjusting handle.



Circle 294 on Rapid Reply



### C & A Control's Startguard 500RF

C & A Control Systems offers the advanced Startguard 500RF remote starter/alarm combination. Startguard's remote starter portion has the same features as the La-Z-Start 200 alarm interface and the La-Z-Start 300RF. These features include: 12 minute or 20 minute runtime; GM VATS passkey bypass; shock and motion sensors bypass; Dummy Bump™ starter projection; Overrev, hood and brake turn off projection; programmable auxiliary ground output (pulse or constant); programmable for all vehicles with automatic transmissions (carbureted or fuel injected) and automatic recycling if engine stalls.

Startguard's alarm portion is a remote or passive arm/disarm alarm. It includes an arming chirp, LED and panic options.

Circle 295 on Rapid Reply

### Corkey Control's Xtronic 2000

The Xtronic 2000 card system is a major breakthrough in door locking devices. The device is able to change its own code with each new card insertion. It is the first locking device to accomplish a sequential code change without batteries, electronics, wiring or main frame intelligence.

The Xtronic 2000 is totally self contained and can be easily installed to replace existing cylindrical locksets. CorKey magnetically encoded PowerCards™ provides for master and sub master keying.

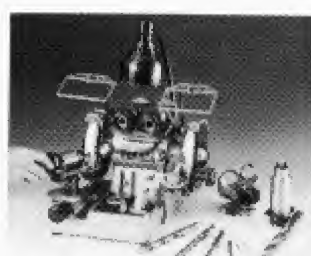


Circle 296 on Rapid Reply

### Darex's Easy Drill Sharpening

Darex Corporation of Ashland, OR now makes it possible for services and shops of any size to easily recycle their dull drills, with three different models of precision drill sharpeners.

The top of the line M-5 can sharpen any point style on any length drill from 1/16" to 3/4" and can be easily expanded to accommodate up to 1-1/8" drills. It can split points, thin webs, produce "S" points and even sharpen carbide and masonry drills. In addition it can even sharpen sheet metal and brad point wood bits.

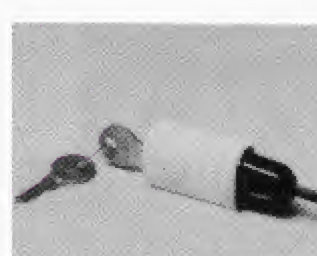


Circle 297 on Rapid Reply

### Direct Safety's Plughugger

The Plughugger, available from Direct Safety Company, is a power cord lock for use on any two or three prong plug. It is designed to prevent unauthorized use of equipment for safety or security reasons. The Plughugger locks onto an electrical outlet plug and requires a key to release.

More information on the Plughugger and other electrical safety and security devices is available in a new 1991 Master Catalog from Direct Safety Co.



Circle 298 on Rapid Reply

### Dortronics Debuts Z-Bracket

Dortronics Systems has introduced the 1196 Series of 1-piece Z-Brackets for the installation of its TJ1100 Series of surface mounted electro-magnetic locking devices on in-swinging doors.

The custom extrusion which includes reinforced angles for added rigidity, is available in three sizes to accommodate the TJ1106, TJ1110/1120, and TJ1115 Series armatures. It is furnished with through-bolts and sex nuts for sturdy, durable mounting on wood, hollow metal, and aluminum doors and a supplementary armature mounting kit to meet variations in face of door and frame alignment.



Circle 299 on Rapid Reply

### Essex Tech.'s KE-260 System

Essex Technologies Corporation introduces their new KE-260 system in their Keyless Entry® product line. The KE-260 system is a coded access system for controlling electronic locking devices.

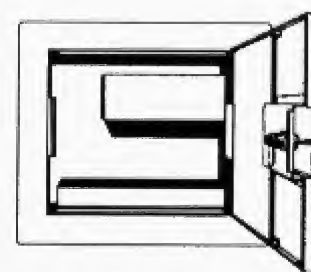
The KE-260 features an on-board SPDT, dry contact relay that has a 1-60 second adjustable output. The output can also be latched unsecured for applications that require the locking device to be unsecured during particular hours. The KE-260 also features an anti-tailgating function for use with latch monitor strikes.



Circle 300 on Rapid Reply

### HPC's Two New Wall Safes

HPC, Inc. introduces two new wall safes. Both safes are constructed of heavy gauge steel and all exposed parts are dual reinforced steel. The large wall safe is 670 cubic inches inside, with a door opening of 11-1/2" x 11-1/2". The small wall safe is 475 cubic inches inside with a door opening of 11-1/2" x 5-1/2". Both safes are available with the option of four different locks; standard tubular, Medeco®, Assa®, and combination. A feature unique to these is the completely flush design, the hinge and lock are below the surface.



Circle 301 on Rapid Reply

### GNM's Video Lock Impressioning

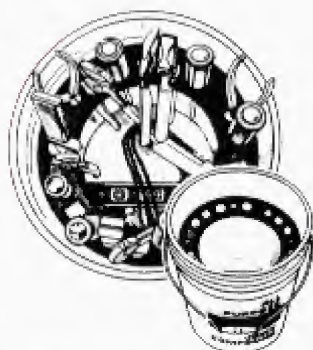
This month, GNM Video Productions introduced "Lock Impressioning," its first release in a series of locksmith training videos. Glen Morris, President, is excited about this new series. "The tapes are the combined effort of locksmiths selected for their expertise in each field titled, and the production staff, resulting in high quality technologically accurate training videos."

Circle 302 on Rapid Reply



### Leading Edge's Tool Disk

Leading Edge Tool Company introduces the "Tool Disk." The "Tool Disk" converts most 5-gallon plastic buckets into organized tool carriers. Simply slide the U.S. made composite device into your 5-gallon bucket and arrange your tools in the pre-cut holes. Instantly, your tools are within easy reach and "The Hunt" for the desired tool is over.



Circle 303 on Rapid Reply

### Liberty Hardware's Door Hardware

Liberty Hardware Mfg. Corp. offers a wide variety of swinging door hardware. Among the many items are latch locks, hook locks, and deadlocks. All of these locks accept any standard mortise cylinder or thumbturn and are offered in aluminum and duronotic finishes. Liberty's latch lock features component hardware of lever handles, paddles for "push or pull" and I.C. core cylinders.

Liberty Hardware also offers a full line of Door Closers and other Architectural Hardware.



Circle 304 on Rapid Reply

### Maloc Enterprise's Flat Bar ME-17

So you won't use a flat bar? Try this new and exciting pocket sized flat bar and you will never be without one again nor will you ever again say never.

Maloc Enterprise offers the pocket-sized ME-17 flat bar. This new tool is only 14" overall length and is properly curved to hook the vertical button in one move. It is the proper width and has a comfortable handle. When used properly it will increase your profits because it will decrease your time in opening a vertical button car with absolutely no damage.



Circle 305 on Rapid Reply

### Marlock's Solitaire System 3

Marlock Company has introduced a new hardware/software product, System 3, to allow centralized control of Solitaire 50/50 or Solitaire Plus stand-alone, access-controlled doors, including multiple sites, using any PC compatible laptop computer.

System 3's software's easy to use pull-down menus and on-line help screens simplify validating or deleting keys, querying of Solitaire-controlled doors and filtered history report viewing or printing.

The complete System 3 package includes software, a self-powered keyreader, communications adapter, programming cable and instruction manual.

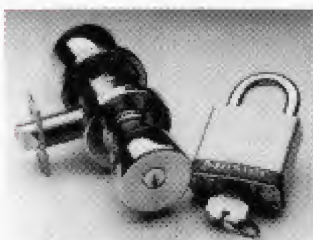


Circle 306 on Rapid Reply

### Master Lock's System-29

Designed to permit the opening of padlocks and doorlocks with the same key, System-29 padlocks from Master Lock are compatible with Dexter, Corbin, Schlage, Yale, Falcon, Sargent, Medeco, Master Lock Designer Series and other door hardware keyways.

Features include: fast cylinder removal and replacement, high security 2-1/2" wide laminated steel body, and choice of 7/16" or 3/8" diameter, case hardened steel shackles.



Circle 307 on Rapid Reply

### Paragon's Remote Vehicle Security

For the automotive enthusiast wanting an economically priced yet comprehensive vehicle alarm, Paragon Security Corp. introduces the RM-9004 Remote Controlled Vehicle Security System.

The RM-9004 is installed by connecting two wires. The RM-9004 monitors the vehicle's doors, hood and trunk without having to hardwire these zones. In addition, the RM-9004 incorporates a built-in shock and glass break sensor with sensitivity control to detect motion or glass breakage.



Circle 308 on Rapid Reply

### Personal Security's Original Mace

Personal Security is pleased to announce that Original Mace is now available for distribution to the consumer market. Developed over 25 years ago, Mace is considered by many experts to be the most effective and humane formulation ever developed for protection against physical attack. Each unit contains about 20 one-half second burst and has a range of up to 12 feet.

A built-in belt clip and key chain makes it ideal protection for anyone concerned with personal safety.



Circle 309 on Rapid Reply

### Sentry's Small Storage Products

Two compact Fire-Safe® computer media safes, developed by Sentry Group, have passed the Underwriters Laboratories (UL) Fire Endurance and Explosion Hazard Test and been awarded UL classifications. They are the smallest media storage products ever to earn a UL rating.

The Sentry Model 1710 media chest measures only 8-1/8"H x 14-1/4"W x 11-3/8"D. A space-saving organizer tray for diskettes lifts out for everyday desktop use, and comes complete with dividers, providing easy access to as many as 30 5-1/4" floppies or 60 3-1/2" diskettes.



Circle 310 on Rapid Reply

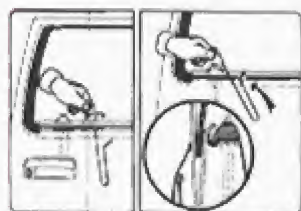


Continued from page 38

### Slide Lock's Japanese Tool™

Slide Lock's new Japanese Tool™ is made for the new breed of tough anti-theft equipped Japanese models of the 1990's. For 1992 the models to have this new lock system are the Toyota 4 Runners, all '92 up Japanese made trucks, Tercel, Cordia and now extending over to the Nissan's Pathfinder, all which are big sellers here in the United States and around the world.

The Japanese Tool is a patent pending lock out tool product from Slide Lock Tool Company, maker of the Master Z-Tool Set®.



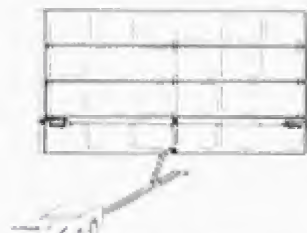
Circle 311 on Rapid Reply

### SureLock Homes' Garage Door Lock

SureLock Homes just introduced a recently patented garage door lock that works in conjunction with existing automatic garage door openers.

Locksmiths can make good profits from both the installation and the unit itself. The unit which costs less than \$50 can be installed in about 30 minutes. All parts are rust-resistant galvanized steel. No special tools are needed.

The system is exceptionally simple and uses the "deadbolt" type system preferred by crime prevention experts and insurance companies.



Circle 312 on Rapid Reply

### WD-40 Endorsed By Manufacturers

When moving parts on locks, safes and lockers become jammed or frozen, they can prevent even owners from getting to their possessions. Preventive maintenance can help stop problems before they affect the lock mechanism or other metal parts of protective security devices.

Throughout the locksmith industry, executives and technicians are becoming aware of maintenance tips which will enhance consumer satisfaction and increase equipment sales.

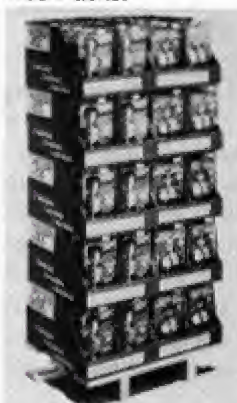
Some manufacturers offer a lifetime warranty on their safes if WD-40 is used.



Circle 313 on Rapid Reply

### Weiser Lock's Mini-Pallet

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## BMW Service, Part III

"Although rekeying of door locks is essentially the same as for other locks on these cars, there are a few differences in disassembly and general service."



Send your lock and key questions to Jack Roberts, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Jack Roberts

In our previous BMW articles we have looked at ignition and trunk lock service for some of the various models that have been introduced into the US market in the past twenty years. In this article we will examine the 10 cut and 11 cut double sided convenience key door locks from recent years.

Although rekeying of door locks is essentially the same as for other locks on these cars, there are a few differences in disassembly and general service. Some of these door locks will be found with a fixed pawl while others have a free-play type and later models will have a fixed pawl with dead lock capability.

Opening procedures for a locked vehicle will, of course, be determined by the type of cam or pawl: fixed or free-play. A window wedge and inspection light will reveal which type of pawl is used. In photograph one, clockwise from the lower right, we see a free-play pawl, a late model fixed pawl, an early model fixed pawl, a fixed pawl with manual deadlock and a



1. Clockwise from lower right: free-play pawl, fixed pawl/manual deadlock, free pawl/electric operation.

fixed pawl with electric operation. (This lock can also be deadlocked manually). At the top of the photo is another type of electric operation arm which may be encountered.

If your inspection reveals a pawl made from a white synthetic material the car can be opened with an opening tool; the other locks must be picked or impressioned. If picking is necessary, the passenger door lock of all models turns to the right to open while the driver's side door turns to the left. An easy reminder is "right turns right, left turns left."

Although picking a BMW lock is not like picking a five wafer cam lock, it certainly should not be intimidating and can be accomplished without too much

difficulty if one uses patience and skill. Impressioning is best achieved by filing a knife edge on the blank which gives much better marks without undue stress on the blank or the wafers.

If a BMW is locked and the driver's side keyway is in a horizontal position, the car will be deadlocked, the key will be a Silca HU50 (Taylor X144), and often the only means of ingress will be to impression a key. Of course, the keyway could be in a vertical position and still require the 11 cut key which we will examine later. For now, let's look at the 10 cut Silca BW7 (Taylor X59) locks.

Before disassembly of any lock it is always wise to mark locations of



2. Arrow indicates the location of the plug return spring.

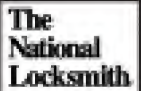
Continued on page 44

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Continued from page 42

critical parts; the location of the plug return spring of a free-play pawl lock is shown in photograph two. Note that the plug return arm is a part of the retainer. The retainer is removed from the end of the plug by gently prying around the circumference with a small flat blade screwdriver. The pawl and return spring are removed and the plug will slide out of the cylinder. The plug may now be serviced as required.

Reverse the procedure for reassembly making sure that the plug return arm of the retainer is properly located in the return spring ends. With the retainer sitting on the end of the

plug, strike it sharply with a plastic or leather mallet and it will snap into place.

Almost all door lock service is occasioned by attempted forcible entry such as seen in photograph three. The most cost effective service for a lock with this type of damage is new replacement. The new lock, of course must be keyed to the customer's key. Fixed pawls are attached to the end of the plug with a roll pin (see photograph 4), which is easily removed with a small punch. The fixed pawl serves also as a plug return and retainer. Always mark the location of the plug return



3. Door lock damaged by forcible entry.



4. Fixed pawl attached with a roll pin.

spring and the return arm before disassembly. The plug slides out of the cylinder when the pawl and return spring are removed.

As previously noted, all of the preceding locks utilize the Silca BW 7 (Taylor X59) 10 cut key blanks. In 1984 on their model 733i, BMW introduced their anti-theft locking system which requires the 11 cut Silca HU 50 - HU50AP (Taylor X144) key blanks. Engineering design changes for this new lock, found on the driver's side door, shortened the cylinder or lock body by about 5mm to accommodate the first seven regular wafers in the code and added a 9mm deadlocking collar for the last four "deadlock" wafers.

The difference in these wafers is readily detectable as seen in photograph five. Note that while the regular wafers have serrated edges to deter picking, the deadlock wafers have an absolute hook that engages the groove in the collar. As mentioned, picking a deadlocked lock is a real chore that requires skill, patience and a heavy torque wrench.

For regular locking the key is turned 45 degrees left or right, (driver's side or passenger's side) which, by means of the electro-mechanical system locks all doors and the trunk. Unlocking a door, either side, unlocks all doors, but does

Continued on page 46

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Continued from page 44



5. Note the difference in the wafers (regular -serrated; deadlocking-hooked).

not, however, unlock the trunk!

For anti-theft (deadlock) operation, the driver's side lock is turned an additional 45 degrees to the right and the key removed. This puts the keyway in a horizontal position and when you see this you will know that your job has been cut out for you. Here is what happens:

For regular locking the deadlock wafers ride in the deadlock collar with no groove to engage. When the key is turned the additional 45 degrees, the ends of the deadlock wafers engage the groove in the collar and are firmly set in that position. It should be noted that the doors are *locked* and cannot be opened from the inside even if a window were down a bit and the inside handle could be reached with a pull tool.

A full complement of wafers, 7 regular and 4 deadlock are seen in photograph six. Note here that there are

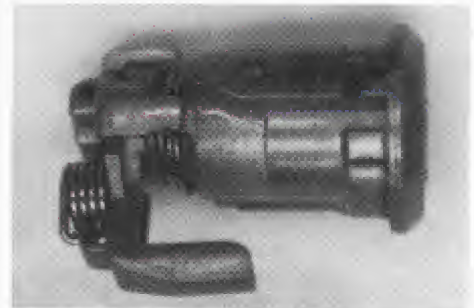


6. The full complement of 11 wafers is shown here.

no number 4 deadlock wafers for these locks! Codes for the 11 cut locks are in the HB 10001-49999 series and none of these codes show a number 4 cut in the 8th, 9th, 10th or 11th positions. Code numbers are found on the ignition lock only and will not show the HB — only the five digits of the code. (See photograph 7.) A small tag which is attached to the original set of keys has



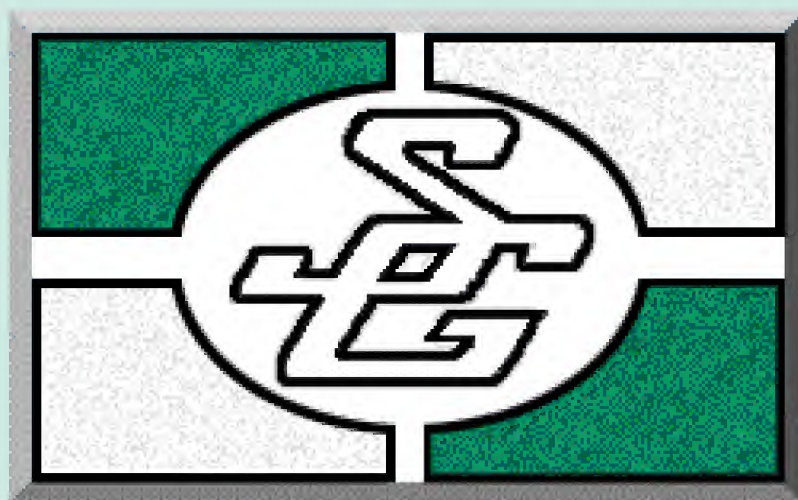
7. Code stamped on the ignition lock.



8. Early model deadlock. Scratches indicate return spring and retainer arm positions.

the code for the car. This tag is self adhesive and may possibly be found sticking in an obscure spot in the glove box or under the dash.

A helpful reminder could be that an HB code with 4 digits (or less) is a 10 cut key and an HB code with 5 digits is an 11 cut. An early model deadlock is seen in photograph eight. Note that the position of the return spring and retainer arm have been marked prior to disassembly. The deadlock override spring is attached between the retainer and the pawl. In photograph nine, the key has been turned a full 90 degrees to the right and the spring has now moved to the deadlock position. This is a strong bugger and this is the pressure that must be overcome when picking a



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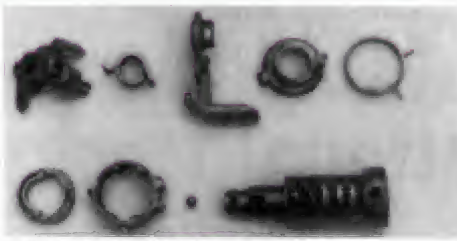


9. Override spring in deadlock position.

lock of this type. The retainer is easily removed by a small punch. The disassembled lock is seen in photograph ten.

There are no real surprises during disassembly. Each part is removed in order and there are no spring loaded balls that will come flying out. We do suggest that the override spring be removed before the retainer roll pin. The major service problem with these locks has been excessive wear on the plug shaft where the detent ball rides. This wear is evident on the bottom plug seen in photograph 11.

Reassembly after service is straightforward: All of the pieces fit only one way, and it is nearly impossible to get anything backward. Just lay things out in order when taking it apart and then put them back the same way.



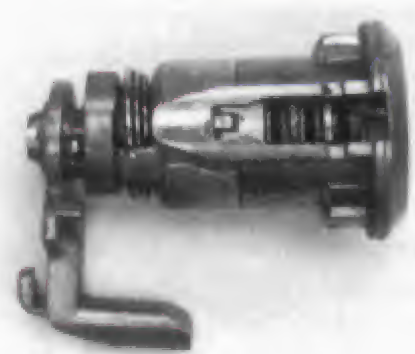
10. Disassembled lock.



11. Two plugs: note wear on bottom one.

The detent ball goes in just before the pawl. (See photograph 12.) Place it in the ball groove, slide the pawl into position on the end of the plug and replace the roll pin. The only tough part is getting the override spring reattached but a few bad words and a little persuasion will work wonders.

Improvements in the anti-theft system in recent years necessitated a few design changes in the driver's side door lock. The pawl has



12. Correctly inserted detent ball.

been redesigned to accommodate a control arm to which the override spring is attached. The retainer is now a flat (very soft) material which also serves as the plug return arm. Remove this retainer very carefully by tapping with a small flat screwdriver. Note in photograph 13 that there is a slot in the retainer and that there are stake marks



13. Notice slot in the retainer and stake marks.

*Continued on page 90*



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# The Lighter Side

A "Murphy" Kind of Day



by Sara Probasco

**"W**hat took you so long?" I asked Don when he finally returned to the shop. "I have a bunch of service calls for you."

He swept past me without printable comment.

"I thought all you had to do was a quick latch repair."

He mumbled something unintelligible.

"You've been gone over an hour," I said, following him into the back room. "Did you have a problem?"

**"No, I didn't have a problem.** I had sixteen thousand problems. I've had nothing *but* problems all day! Now quit bugging me."

"OK, but, what about these service calls?" I held out a handful of call slips.

"I'll get to them in a minute. First, I'm going to quietly sit here in my swivel chair and drink this cup of coffee. Undisturbed!"

The day had not started well. In the first place our radio alarm had blasted us out of bed with lovely south-of-the-border music, compliments of the previous day's cleaning lady. (She likes to listen while she vacuums and sometimes forgets to change it back.) Then, I had bought the "other brand" of garbage bags, and the bottom dropped out as Don was carrying it to the outside garbage pail. About that time, our Great Dane jumped our six foot fence and treed three cats and the milkman before we could corral him. Everything went downhill from there.

While Don was out on a service call, one of our employees was struggling to unlock a car door at the coffee shop adjacent to our building. Not only was she unsuccessful, she managed to hang up two car-opening tools in the door. It took Don nearly an hour to maneuver them loose, after he got back to the shop.

"Don't feel bad, Betsy," he told her. "I've done worse things."

I noticed he didn't mention the car door he'd worked on all morning. The customer had lost his keys to a 10-cut Ford. "No problem," thought Don, but he didn't realize that it was a "Murphy" kind of day.

Deciding to take the lock out, he opened the door and removed the clip. He eased the lock out of the door and secured the rod with his vice grips. After removing the lock from the rod, he made a door key. Simple enough, you may think, but Murphy was lurking in the shadows, laughing.

The unexplainable happened next. Somehow, the vice grips came loose from the rod as Don was re-attaching the lock. Clunk! The rod dropped to the bottom of the door.

"Whatcha doin', Mister?" their little freckle-faced girl asked, as she watched Don trying to peer into the cavity of the door with his light.

"Nothing," he replied. "Go somewhere else to play."

"I bet you dropped something down inside there, didn't cha?" She climbed up to see.

**"Go on, now, little girl. I'm busy."**

"I dropped something down a well, once, and we tried and tried and never did get it out. I bet you can't get whatever you dropped, either. Whatcha doing now? Huh? Did you ask my Daddy if you could take all those screws out of his car door? You better not, or I'll tell."

"Look, kid," Don said. "Go play on the porch or somewhere, OK? I have work to do here, and you're bothering me."

"I don't have to if I don't want to."

"No, but I'm sure you're going to want to, any minute, now." Don screwed up his face and stood up. Towering over the child he let out a roar and stamped his feet. "AARRRRHHH!" he said.

The little girl ran, screaming, onto the porch. "I'm going to tell my momma on you," she hollered, as she slammed into the house.

Smiling at the peaceful quiet, Don finished taking the door panel off. He could see the rod lying in the bottom of the door, right behind the rolled-down window glass.

"Rats!" he muttered. "Electric windows. There's no way to get the glass up without turning on the ignition. Well, I'll just have to come up with an ignition key first."

Going to his service van for his try-out keys, he compared the door key to each of them and eliminated the unlikely ones. One by one, he tried those that were possibilities. None of them worked. Murphy strikes again.

Suddenly, Don remembered a tool he had bought years before, but never had the opportunity to use. It was a jig with a special hole and drill bit designed specifically for drilling the sidebar off such an ignition. He hurried back to the shop to get it.

**"Well," I said, glancing up** as he came in, "that didn't take very long."

"I'm not finished, yet. Do you know where I put that 10-cut ignition jig?" He was plundering in a tool box beneath our back workbench.

"What does it look like?"

"It's about this big," he described the size and shape with his hands. "I got it at one of the Houston shows, I think." His voice trailed off as he continued his plundering.

"Have you looked in your van?"

"No. It's in here, somewhere. I remember seeing it when we rearranged the shop."

"My word, Don. That was over a year ago. You'll have to do better than that."

He was raking odds and ends off a back shelf. "Aha! I knew it was here." He dashed out with the tool in hand, shouting "I'll be back in a flash."

Don, the eternal optimist! Had he forgotten that Murphy was riding shotgun?

Needless to say, when Don got to the job he found that the lockshop gremlins had stolen the directions from the jig's box.

When I asked how he had managed to complete the job, all Don would say was, "Magic!"

I could buy that. Sometimes one must resort to such things on a "Murphy" kind of day. §



# Beginner's Corner

## Lock Opening Jobs



by Eugene Gentry

Unusual lock openings can be a challenge to the new locksmith. Some of these will be calls from customers that you can make good money on. Others will be from friends, relatives or neighbors and you will be lucky to get a cent.

Here is some information that might help you on different types of openings. One profitable job is opening the Abus Discus 24, Buffo, or Baton round padlocks sold and used by the Mini-Storages. (See photograph 1.) These locks cannot be hacksawed or cut with a bolt



1. Abus Discus 24 and Buffo padlock.

cutter. The only way to open them is to pick or drill the cylinder. They cannot be easily impressed because the large pins do not seem to mark.

When these locks are on the door, the keyway is upside down. The latch is so tight fitting that the lock will not turn far enough to put you in a proper picking position. The keyway is very small so the regular size rake will not fit. Unless you have a miniature rake, you will have to use your pick gun. For these locks, you will find that you have to file your pick

needle slightly thinner than it is. This is needed because if a long pin is lifted slightly when the needle is inserted it will be above the shear line. I soldered a darning needle to the base of a broken pick. It works, but bends.

Other than standing on your head to pick these locks, the best way is to turn the pick gun upside down and pick downward. This is awkward so make sure your pick needle goes in straight.

On occasion, the lock will not pick. In this case use a small drill bit, drilling the cylinder at the shear line. Try turning the cylinder with a screwdriver before you remove the bit. If the cylinder breaks and falls out as it did with me one time, you can turn the shackle open with your fingers.

*Continued on page 64*

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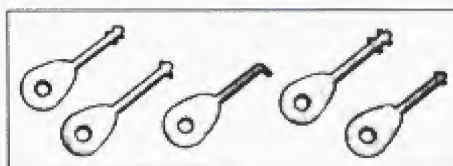
Continued from page 62

Do yourself a favor and buy a warded lock pickset. (See photograph 2.) They sell for around \$8.95. Besides opening the warded padlocks, these will help you open some chests, cabinets, suitcases, and even a kid's piggy bank. Photograph three shows a steamer trunk I opened with the warded pickset. Last week I used one of the picks to open the back of an old stamp vending machine.

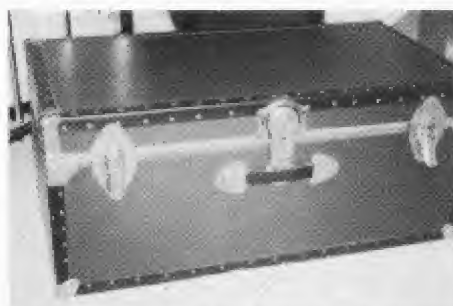
Here is the way to open and salvage a combination bicycle lock and chain. If the chain is at your shop, put one end in a vice. While pulling tight, dial the wheel furthest from the break apart section until you feel a slight give. Proceed to dial the next wheel until you feel another slight give. Keep dialing the wheels in order and when you hit the last number, the lock will open and you have the combination.

It has been a while since I opened a briefcase that had a combination on each side, but I remember that there was enough room on each side of the dials to see with a magnifying scope how to line the dials so it would open. In this case I believe you could feel the mark with a strip of shim material. This briefcase was interesting because each side had a different combination. Once it is opened you can set the combination to the numbers you want.

File cabinets need opening on



2. Warded lock pickset.



3. Trunk opened with warded pickset.



4. Shaw Walker file with Chicago locks.

occasion. The best bet here is to pick them open. One brand I ran across was the Hon, and these picked open easily with a pick

gun. I was told that these file cabinets have only eight different keys that open them. On the front of the lock is a number, one through eight indicating the key that is used. One locksmith said he had a set of the eight keys that he used for opening and making new keys. I don't know if he made them, or purchased them.

Another picking opening was done on an old Shaw Walker file cabinet with Chicago locks. (See photograph 4.)

One opening that can give you trouble is the mailbox lock. Some of them open immediately, but with others you can use the pick gun, then the rake, and they still don't want to open. The last resort is to drill at the shear line. To replace the mailbox lock, pull off the clip at the rear of the lock, and install a new lock. The clip is inside the door.

You will most likely be called on to open and make keys for all kinds of locks, as varied as a freezer, roll top desk or vending machine. Knowledge of impressioning and reading wafer locks will help you. A scope with a light is very helpful because you can look into the locks to see what is needed to open them.

Practice with some of the locks you have around the house and you will be ready for a call. \$



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# Locksmith Photos

Here are some more photographs submitted by readers. Although they were not prize winners, we thought you would enjoy seeing them.



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Don Spenard, Sr. of Seattle, WA submits this postcard of his service vehicle from the early 1950's. He gave out the postcards to local companies, and says it brought in business.



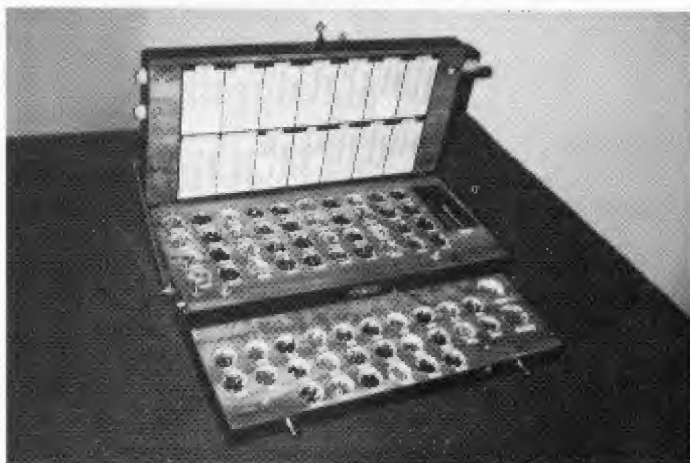
Ray Gardner, Saugatuck, MI, lockshop in Berlin, Germany.



Steven Mathena, East Ridge, TN made this inlaid pin kit.



Island Lock & Key, Maui, HI, outside view of service vehicle.



Here Steven's beautiful pin kit is shown in the open position.



Inside view of van, Island Lock & Key, Maui, HI.

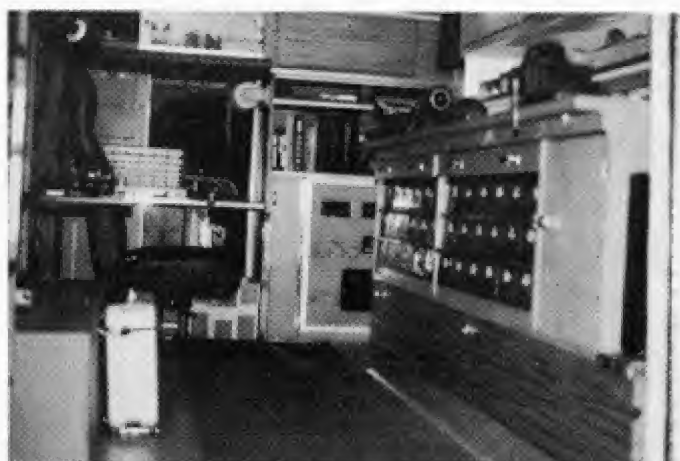




TJ's Lock & Key, Tillamook, OR. Outside view of van.



Bay Area Locksmith, Annapolis, MD. Outside view of van.



Paul's Lock & Safe, Farmingdale, NJ. Inside view of truck.



Bay Area Locksmith, Inside view of van showing work area.



Custom Locksmithing, Kalispell, MT. Outside view of truck.



Village Locksmith, Collinsville, IL. View of fleet of vehicles.



A-1 Lockpros, Clovis, NM. Outside view of locksmith shop.



Taylor Locksmithing, Auburn, WA. Outside view of truck.




## Business Briefs & Industry News

**Corbin & Russwin Architectural Hardware** announces the appointment of **David P. Bowtruczyk** to the position of Western Regional Sales Manager. He will be responsible for directing Corbin & Russwin sales activity in 20 western states, Alaska, and Hawaii.....**Medeco Security Locks, Inc.**, is pleased to announce that **Alan Heaney** has been promoted to Director of Canadian Operations. Alan, in his new position, is responsible for all Medeco operations in Canada. His duties will include managing sales programs, marketing plans and production needs.....**American Lock Company**, continuing its expansion in 1991, is pleased to announce that an agreement has been reached with Fanal, S.A. of Monterrey,

N.L. Mexico to be the exclusive distributor in Mexico of American Lock Company products. Established in the 1940's, Fanal, S.A. has been instrumental in the growth of the hardware industry in Mexico.....**Liberty Hardware Manufacturing Corp.** is pleased to announce the appointment of **Ray Plunkett** as National Sales Manager of Liberty's Architectural Hardware division.....**Jet Hardware** announces the addition of three new factory representatives responsible for the sales and service blanks and product. In the Greater New York City area, Jet adds **Art Koines** with the firm of Koines & Alan. Koines was previously associated with Ilco as the representative in New York. **Neal Boynton**, with the firm of Suncoast

Marketing was appointed the representative to cover the States of Georgia, North and South Carolina. Suncoast Marketing also represents Jet Hardware in Florida. Boynton was the former Vice President of the sales with Ilco in Rocky Mount. **Steve Chown**, Chown Sales Company, Inc. has been appointed as the representative responsible for the States of Louisiana and Arkansas. Previously affiliated with Security Marketing, representing Ilco in the area.....**Kwikset** recently named **Michael P. Hoopis** president of the Anaheim-based lockset manufacturing firm. "I am excited to be associated with a company that has earned a strong leadership position in the marketplace by providing quality products, good value and outstanding customer support," states Hoopis. "Our strategy will be to



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Michael Hoopis, president, Kwikset.

aggressively build on these strengths as we position Kwikset to realize its significant growth potential.".....**Jeffrey Weinstein** has been appointed to the position of Sales Representative for the Metropolitan New York area and Northern and Central New Jersey by **Corbin & Russwin Architectural Hardware**. Mr. Weinstein joined Corbin & Russwin in 1990 and has previously held sales positions in Florida and Colorado.....**The Associated Locksmiths of America, Inc. (ALOA)** has announced that **Henry H. Printz**, CML, of Morristown, NJ, was elected as the association's president at its annual Membership Meeting on Friday, July 19, 1991 in Anaheim, CA. "I am thrilled at the membership support shown by the election and am looking forward to serving the membership," Printz said of his election.



# Shop Talk

Helpful Questions and Answers

Written by *all* of the following authors: Dale Libby, Robert Sieveking, Dave McOmie, Shirl Schamp, Don O'Shall, and Jack Roberts.

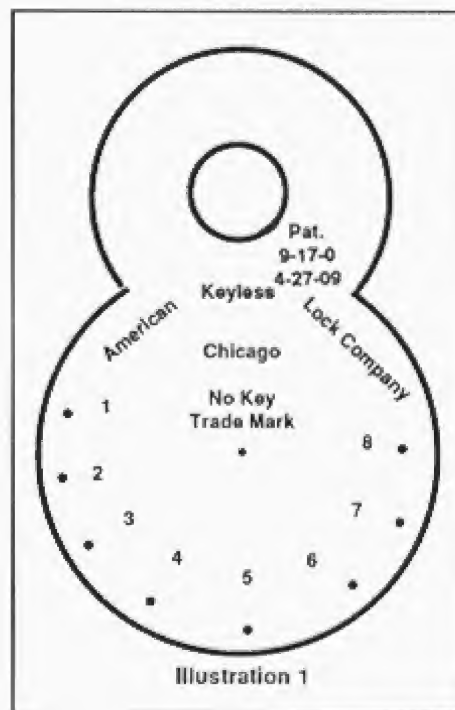
Send your questions to Shop Talk: *The National Locksmith*, 1533 Burgundy Parkway, Streamwood, IL 60107.

*Q: I would like to know if you could*

*give me any information on the lock shown in illustration one. A customer brought it in to my shop and it seems to be in very good condition. I would like to be able to open it and give him the combination.*

*I checked in some old padlock books I got from my father, but I couldn't find anything. Also could you suggest a price for this?*

Paul Frederick  
Pennsylvania



A: Paul, this piece was first patented and manufactured by the Edwards Manufacturing Co. in Cincinnati, OH, with the same patent dates as shown on your lock. This lock was also manufactured by the Berkman Manufacturing Co. and there are some out there from American Keyless, Chicago, with later patent dates. We find no connection between the Edwards Co. of Cincinnati and the O.M. Edwards Co. of Syracuse, NY who also manufactured padlocks in the early part of this century.

This padlock is not a rarity in the collectors market and doesn't demand a very high price unless one is found in like new condition. \$10 and \$15 is about the average price at padlock collector shows.

The combination consists of three numbers which are pressed from the front or back of the piece and referred to as up and down such as 7 and 8 up, 5 Down. This would mean 7 and 8 are pressed from the back and 5 from the front. Or, two numbers may be pressed



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from the front (down) and one from the back, (up).

There are more than 40,000 possible combinations and a computer generated listing would be of great help in keeping track of the numbers tried. Opening can be a real chore and can take some time but it is always worth the effort (for me) to see a shackle fly open. I usually try combinations, or pick difficult locks, when doing something else, like watching TV, fishing, etc. The "Keyless" can be rapped open, but I don't recommend this method due to the possibility of damaging the very thin brass case.

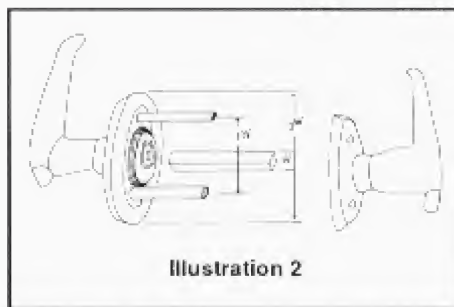
When you are successful in getting the shackle open, look in the shackle hole and you will see a flat plate or band. Put the point of a pick, or similar tool, alongside this band towards the back of the lock, pry up and move the band towards the front of the case. This releases all of the buttons so that they may be turned to set or remove a number from the combination. To remove a number turn the button to the right as far as it will go. A button which has been set for down will turn to the right about two thirds of a turn. If set for up it will turn about one third of a turn.

After turning the button, close the shackle. This takes that number out of the combo. Do not try to remove more than one at a time. When all numbers have been removed the shackle will not lock. To set a new combo, buttons are turned left; one third turn for an up number and two thirds for a down number. After each number is set, close the shackle. Do not try to set more than one number at a time. After all the new numbers are entered you check your work for accuracy, move the band or plate in the shackle hole back to its original position to lock the new combo in place.

Good luck on finding the opening numbers, Paul, and thanks for writing to Shop Talk.

\*\*\*\*\*

*Q: A customer of mine has a gas station. In the large roll up bay door is a small aluminum narrow stile door. It had the lever set shown in illustration two which broke. It also has a narrow stile latch set for locking purposes.*



**Illustration 2**

*They took the lever set out and lost the latch. The lever set has no lock but holds the door closed during operating hours, and allows them to walk in and out without opening the big bay door. It has a 1-3/4" backset and a 1-1/4" mounting hole. The darkened area in the drawing has a coil spring going around inside for centering the levers. The square cam just slides in and out*

*No one seems to have any idea who*

*made it or where I can get another. Can you help me with this?*

*Norman D. Chance  
Pennsylvania*

A: Norm, I would think that the best place to start looking for a lock of this type would be an industrial hardware supply house or distributor in your area. These people have locks, handles, hinges, hooks, etc. for even the most unusual applications. My guess is that your lock was made by the A.L. Hansen Manufacturing Co., or by the Eberhard Manufacturing Co. You might try to find a distributor or manufacturer name on the overhead door. This could lead you to a supplier.

I recently needed to replace a broken spring on a tool crib lock, and there was

*Continued on next page*



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*Continued from previous page*

no name on the lock. The crib was made of wire mesh and in a remote corner I found the name of a fence company. Three phone calls, first to the fence company, second to their supplier, (and industrial hardware supply house) and third to the manufacturer, had replacement springs on the way the same day.

Locksmithing often requires a bit of detective work which may take some time, but, you should get paid for that time. Look around, you will find the answer and thanks for writing.

\*\*\*\*\*

*Q: Where can I obtain information on the Schwab fireproof file cabinet?*

*I have a lockout. The key turns, the lock pops out but the drawers remain locked. The owner told me that at first the drawers would not lock when they closed them and pushed the lock in. They noticed a small lever on the side of the top drawer and flipped to see if that would lock the drawers, it did and now they won't open at all. I could not get the model number because I could not get to the back and there is nothing in the front.*

*I appreciate any help you can give me on how to open this unit and where to obtain service information.*

*Ben Valle  
California*

**A:** Filing cabinet complications on fireproof cabinets are quite common. First, the lever that the customer flipped is common on better filing cabinets. This is indeed a lock or no lock lever, which each drawer should have. This allows one to lock a cabinet with one lock (the push lock) while allowing other drawers to remain unlocked. This allows private as well as public access to the same cabinet.

The lever flips to block the action of the vertical locking bolt movement, or other blocking motion to keep the individual drawer(s) unlocked. This probably has no real bearing on why your cabinet remains locked when the push-in lock has popped out.

The cause for the lockout, not only on this cabinet, but on all file cabinets, both insulated and non-insulated, is that the lever and linkage that is activated by the push-in lock has either: 1) Become disconnected; 2) Is stuck or bound in position by insulation or other debris (paper clips, pencils); 3) Is jammed by a drawer being pushed in improperly.

Most of these problems can be solved without too much trouble by

gently shaking or jarring the linkage to try to restore free movement. This is especially hard on insulated file cabinets because of their weight and size.

Another possible method of attack is to try to run a piece of flat steel alongside the drawer to try to dislodge the linkage from where it locks into the drawer. Something is stuck and will not allow the vertical rod to move.

Once you do get the drawer and cabinet open, hopefully the problem can be solved by tightening and/or lubricating the linkage assembly. This may be especially hard on insulated files, for they were never made to be disassembled in the aftermarket situation.

\*\*\*\*\*



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## Roberts

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in the end of the plug which hold the retainer in place. Do not pry on the return spring end of the retainer. It will bend easily and the shape can be distorted.

After removing the retainer, place the unit inside a clear plastic bag before further disassembly. When the pawl arm is removed the return spring is visible. (See photograph 14.) Remove the spring and slide the detent ring off the end of the plug. This is where the two detent balls will come flying out!



14. Return spring is now visible.

Remove the deadlock collar and slide the plug out of the cylinder for service. Note in photograph 15 the improvement in the detent function as compared to that in photograph 11. The hole is drilled through the end of the plug and two balls and a spring are used. This effectively eliminates the wear which occurred on the early locks.

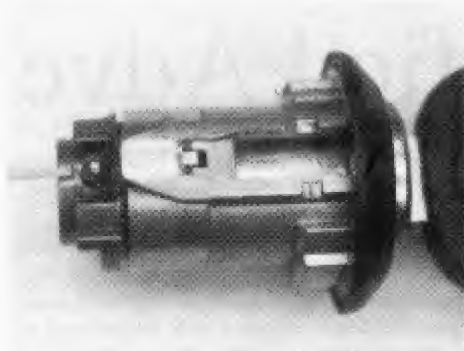


15. Note improvement in detent function over that of photograph 11.

For reassembly, with the key inserted place the deadlock collar on the cylinder, insert the plug, and position the detent ring so the access hole in the ring lines up with the hole in the end of the plug. Drop one detent ball into the hole, put the spring in place and then place the other ball on the end of the spring. (See photograph 16.) Put the assembly inside the clear plastic bag and use a 3/32 punch or similar tool to push the detent ball down below the ring.

Turn the key while pushing on the detent ring and everything will go into position. If you are lucky this will





16. Assembled deadlock.

happen the first try. Place the plug return spring in the proper position, put the pawl arm in place and then gently tap the retainer into the slot in the end of the plug making sure that the end of the retainer engages the ends of the plug return spring. Be careful not to distort the retainer. Restake the end of the plug and the unit is ready for service.

Codes for the 10 cut HB 1 - 5000 series may be found in Baxter Book #27 and *The National Locksmith Foreign Car Codes*, Volumes I & II. Codes for the 11 cut HB 10001 - 49999 series may be found in Baxter Book #33 and *The National Locksmith Foreign Car Codes*, Volume I.

Continental Micro Card XF34 may be used for all codes, 10 cut and 11 cut, but don't try to use the 10 cut Silca BW 7, BW 7P (Taylor X59) for an 11 cut master key. It will work, but it will not activate the deadlock feature of the 11 cut lock.

Valet keys for both series, 10 cut and 11 cut are made using the Silca BW 8 blank. For the 10 cut series, duplicate from the master or cut by code using all 10 cuts. For the 11 cut series, duplicate (or cut by code) the first seven cuts, then, cut #4 depths to the end. This works because there are no #4 depths in the last four positions of the driver's side deadlock and there are only seven wafers in the ignition lock. In all models that we have surveyed, this valet key will not operate the passenger side door lock which contains 8 or more wafers.

BMW service may present a challenge, but it is a lucrative one and is fun to do when you really get into it. In a future article we will examine the BMW high security locking system which uses the laster cut or double sidwinder Silca HU 58AP - HU 59 keys. This lock presents a slightly different type of wafer, and crowds 12 wafers into very little more space than has been used for ten. §

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